

Docket No.: 0234-0507PUS1
(Patent)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent Application of:

Kazuhiro MURATA et al.

Application No.: 10/566,476

Confirmation No.: 5098

Filed: January 31, 2006

Art Unit: 1791

For: METHOD OF PRODUCING A THREE-
DIMENSIONAL STRUCTURE AND FINE
THREE-DIMENSIONAL STRUCTURE

Examiner: SULTANA, N.

AGENDA FOR INTERVIEW

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

For the interview to be conducted on Thursday, April 15, 2010, the below amended claim is provided for consideration. The amendments overcome the claim objection, the rejection based on 35 USC 112, first paragraph and adds the subject matter of claim 34. In addition, other limitations are added to the claim. The distinctions between the invention and prior art will be discussed during the interview.

1. A method of producing a three-dimensional structure, comprising the steps of:
providing a needle-shaped nozzle body having a fine inside diameter at a tip thereof, an inside diameter of the nozzle is 0.01 μm to 8 μm , the nozzle supplied with a fluid material, the nozzle having an electrode arranged inside or outside thereof;
arranging a tip of the nozzle to be close to a substrate;
ejecting a fluid droplet having an ultra-fine diameter from the tip of the nozzle toward a surface of the substrate by applying a voltage having a prescribed waveform to the needle-shaped nozzle body via the electrode so as to make the droplet fly and land on the substrate, and thereby

Application No.: 10/566,476

Docket No.: 0234-0507PUS1

Page 2 of 3


the droplet being dried during flight to be a solidified substance after landing on the substrate;
and

continually ejecting subsequent droplets by applying the prescribed waveform voltage to the nozzle for the droplets being stacked on said solidified substance so as to form a grown three-dimensional structure.

If necessary, the Director is hereby authorized in this, concurrent, and future replies to charge any fees required during the pendency of the above-identified application or credit any overpayment to Deposit Account No. 02-2448.

Dated: April 13, 2010

Respectfully submitted,

By 
Christopher J. McDonald
Registration No.: 41,533
BIRCH, STEWART, KOLASCH & BIRCH, LLP
8110 Gatehouse Road, Suite 100 East
P.O. Box 747
Falls Church, VA 22040-0747
703-205-8000